WIMA DC-LINKMKP6 NEW



Metallized Polypropylene (PP) -Capacitors in Cylindrical Case for DC-Link Applications

Special Features

- Very high volume/capacitance ratio
- Self-healing properties
- With cylindrical aluminium case for bus bar mounting
- Dry construction without electrolyte or oil
- No internal fuse required
- Negative capacitance change versus temperature
- Very low dielectric absorption
- According to RoHS 2002/95/EC

Typical Applications

DC capacitors with high capacitances for applications in power electronics also at non-sinusoidal voltages and currents e.g. in

- Wind power systems
- Inverters

Construction

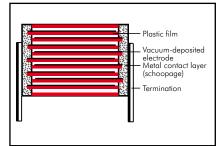
Dielectric:

Polypropylene (PP) film

Capacitor electrodes:

Vacuum-deposited

Internal construction:



Encapsulation:

Aluminium case with PU-sealing, UL 94 V-0

Terminations:

Screw connection M6, screw bolt $M12 \times 16$.

Marking:

Colour: Metallic. Marking: Black on silver label.

Electrical Data

Capacitance range: $165 \mu F$ to $1560 \mu F$ Rated voltages: 600 VDC, 700 VDC, 900 VDC, 1100 VDC, 1300 VDC, 1500 VDC Capacitance tolerances: $\pm 20\%$, $\pm 10\%$

Operating temperature range:

-40° C to +85° C

Insulation resistance at +20° C:

 \geq 5000 sec (M Ω x μ F) (mean value: 20000 sec)

Measuring voltage: 100 V/1 min.

Dielectric loss factor tan δ_0 :

2 x 10⁻⁴

Test voltage: 1.5 U_r, 2sec Dielectric absorption:

0.05 % Reliability:

Operational life > 100000 hours at 40° C

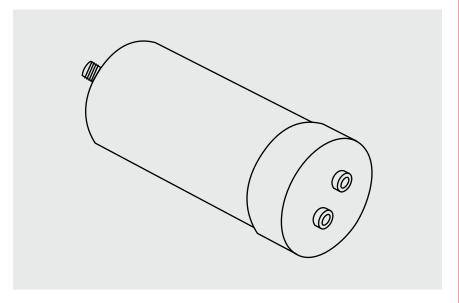
Mounting Recommendation

Excessive mechanical strain, e.g. pressure or shock onto the capacitor body, is to be avoided during mounting and usage of the capacitors.

Packing

Transportation-safe packing in cardboard boxes

For further details and graphs please refer to Technical Information.



WIMA DC-LINK MKP 6



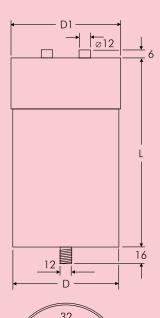
Continuation

General Data

U _R	C _N	D x L mm	I _{rms} (max.)** A	ESR (1 kHz)** mΩ	Approx. weight g	Part number
600 VDC	780 μF	85 x 120	30	1.6	700	DCP6106780E000
	1000 "	85 x 132	35	1.7	850	DCP6I07100E100
	1560 "	85 x 210	60	1.3	1400	DCP6I07156E200
700 VDC	585 µ F	85 x 120	30	1.7	700	DCP6K06585E000
	750 "	85 x 132	35	1.9	850	DCP6K06750E100
	1170 "	85 x 210	60	1.3	1400	DCP6K07117E200
900 VDC	480 µF	85 x 120	30	1.7	700	DCP6N06480E000
	550 "	85 x 132	36	1.8	850	DCP6N06550E100
	900 "	85 x 210	60	1.5	1400	DCP6N06900E200
1100 VDC	325 µ F	85 x 120	30	1.8	700	DCP6P06325E000
	420 "	85 x 132	40	1.9	850	DCP6P06420E100
	650 "	85 x 210	60	1.3	1400	DCP6P06650E200
1300 VDC	215 µ F	85 x 120	30	1.8	700	DCP6R26215E000
	270 "	85 x 132	40	2.4	850	DCP6R26270E100
	430 "	85 x 210	60	1.5	1400	DCP6R26430E200
1500 VDC	165 µ F	85 x 120	30	2.2	700	DCP6S06165E000
	210 "	85 x 132	40	2.5	850	DCP6S06210E100
	330 "	85 x 210	60	1.7	1400	DCP6S06330E200

** General guide

Dims. in mm.



D	DI	
85	86	120
85	86	132
85	86	210

Part number completion:

Tolerance: 20 % = M

10% = K

Packing: bulk = SPin length: none = 00

Rights reserved to amend design data without prior notification.

WIMA Part Number System



A WIMA part number consists of 18 digits and is composed as follows:

Field 1 - 4: Type description

Field 5 - 6: Rated voltage

Field 7 - 10: Capacitance

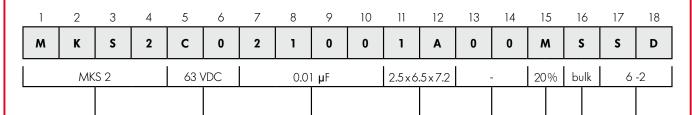
Field 11 - 12: Size and PCM

Field 13 - 14: Special features (e.g. Snubber versions)

Field 15: Capacitance tolerance

Field 16: Packing

Field 17 - 18: Lead length (untaped)



Type description	on:	Rated voltage:	Capacitance:	Size:	
SMD-PET	= SMDT	2.5 VDC = A1	22 pF = 0022	$4.8 \times 3.3 \times 3$ Size $1812 = X1$	
SMD-PPS	= SMDI	4 VDC = A2	47 pF = 0047	$4.8 \times 3.3 \times 4$ Size $1812 = X2$	
FKP 02	= FKPO	14 VDC = A3	100 pF = 0100	$5.7 \times 5.1 \times 3.5$ Size $2220 = Y1$	
MKS 02	=MKS0	28 VDC = A4	150 pF = 0150	$5.7 \times 5.1 \times 4.5$ Size $2220 = Y2$	
FKS 2	= FKS2	40 VDC = A5	220 pF = 0220	$7.2 \times 6.1 \times 3$ Size $2824 = T1$	
FKP 2	= FKP2	5 VDC = A6	330 pF = 0330	$7.2 \times 6.1 \times 5$ Size $2824 = T2$	
MKS 2	=MKS2	50 VDC = B0	470 pF = 0470	$10.2 \times 7.6 \times 5$ Size $4030 = K1$	
MKP 2	=MKP2	63 VDC = C0	680 pF = 0680	$12.7 \times 10.2 \times 6$ Size $5040 = V1$	
FKS 3	= FKS3	100 VDC = D0	1000 pF = 1100	$15.3 \times 13.7 \times 7$ Size $6054 = Q1$	
FKP 3	= FKP3	160 VDC = E0	1500 pF = 1150	$2.5 \times 7 \times 4.6 \text{ PCM } 2.5 = 0B$	
MKS 4	= MKS4	250 VDC = FO	2200 pF = 1220	$3 \times 7.5 \times 4.6 \text{ PCM } 2.5 = 0C$	
MKP 4	=MKP4	400 VDC = G0	3300 pF = 1330	$2.5 \times 6.5 \times 7.2 \text{ PCM} 5 = 1A$	
MKP 10	=MKP1	450 VDC = H0	4700 pF = 1470	$3 \times 7.5 \times 7.2 \text{ PCM} 5 = 1B$	
FKP 4	= FKP4	600 VDC = 10	6800 pF = 1680	$2.5 \times 7 \times 10 \text{ PCM } 7.5 = 2A$	
FKP 1	= FKP1	630 VDC = J0	$0.01 \mu F = 2100$	$3 \times 8.5 \times 10 \text{ PCM } 7.5 = 2B$	
MKP-X2	=MKX2	700 VDC = KO	$0.022 \mu F = 2220$	$3 \times 9 \times 13 \text{ PCM } 10 = 3A$	
MKP-X2 R	=MKXR	800 VDC = 10	$0.047 \mu F = 2470$	$4 \times 9 \times 13 \text{ PCM } 10 = 3C$	
MKP-Y2	=MKY2	850 VDC = M0	$0.1 \mu F = 3100$	$5 \times 11 \times 18 \text{ PCM } 15 = 4B$	
MP 3-X2	=MPX2	900 VDC = NO	$0.22 \mu F = 3220$	$6 \times 12.5 \times 18 \text{ PCM } 15 = 4 \text{C}$	
MP 3-X1	=MPX1	1000 VDC = 01	$0.47 \mu F = 3470$	$5 \times 14 \times 26.5 \text{ PCM } 22.5 = 5A$	
MP 3-Y2	=MPY2	1100 VDC = P0	$1 \mu F = 4100$	$6 \times 15 \times 26.5 \text{ PCM } 22.5 = 5B$	
MP 3R-Y2	=MPRY	1200 VDC = Q0	$2.2 \mu F = 4220$	$9 \times 19 \times 31.5 \text{ PCM } 27.5 = 6A$	
Snubber MKP	= SNMP	1250 VDC = R0	$4.7 \mu F = 4470$	$11 \times 21 \times 31.5 \text{ PCM } 27.5 = 6B$	
Snubber FKP	= SNFP	1500 VDC = S0	$10 \mu F = 5100$	$9 \times 19 \times 41.5 \text{ PCM} 37.5 = 7A$	
GTO MKP	= GTOM	1600 VDC = T0	$22 \mu F = 5220$	$11 \times 22 \times 41.5 \text{ PCM} 37.5 = 7B$	
DC-LINK MKP 4	= DCP4	2000 VDC = U0	$47 \mu F = 5470$	$94 \times 49 \times 182 \text{ DCH}_{-} = H0$	
DC-LINK MKP 5	= DCP5	2500 VDC = V0	$100 \mu F = 6100$	$94 \times 77 \times 182 \text{ DCH}_{-} = H1$	
DC-LINK MKP 6	= DCP6	3000 VDC = W0	$220 \mu F = 6220$	l	
DC-LINK HC	$= DCH_{-}$	4000 VDC = X0	1 F = A010		
SuperCap C	= SCSC	6000 VDC = Y0	2.5 F = A025		

50 F

100 F

110 F

600 F

1200 F

=0W

= 1W

= 2VV

=3W

=4W

=5W

250 VAC

275 VAC

300 VAC

400 VAC

440 VAC

500 VAC

= SCMC

= SCSR

 Tolerance:

 20%
 = M

 10%
 = K

 5%
 = J

 2.5%
 = H

 1%
 = E

Packing:

AMMO H16.5 $340 \times 340 = A$ AMMO H16.5 $490 \times 370 = B$ AMMO H18.5 $340 \times 340 = C$ AMMO H18.5 $490 \times 370 = D$ REEL H16.5 360 = FREEL H16.5 500 =HREEL H18.5 360 = 1REEL H18.5 500 =J**ROLL H16.5** =N**ROLL H18.5** =0BLISTER W12 180 = PBLISTER W12 330 =QBLISTER W16 330 =RBLISTER W24 330 =TBulk Mini =MBulk Standard =SBulk Maxi =GTPS Mini =XTPS Standard =Y

Special features:

Standard = 00 Version A1 = 1A Version A1.1.1 = 1B Version A1.2 = 1C Lead length (untaped) $3.5 \pm 0.5 = C9$ 6 - 2 = SD

= P1

16 ±1 ...

The data on this page is not complete and serves only to explain the part number system. Part number information is listed on the pages of the respective WIMA range.

= A500

= B100

= B110

= B600

= C120

SuperCap MC

SuperCap MR = SCMR

SuperCap R